

# Tarek Zayed

## List of Publications by Year in descending order

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Version: 2024-02-01

288  
papers

6,214  
citations

71061

41  
h-index

123376

61  
g-index

291  
all docs

291  
docs citations

291  
times ranked

3290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing risk and uncertainty inherent in Chinese highway projects using AHP. International Journal of Project Management, 2008, 26, 408-419.	2.7	219
2	Artificial neural network models for predicting condition of offshore oil and gas pipelines. Automation in Construction, 2014, 45, 50-65.	4.8	149
3	Infrastructure Condition Prediction Models for Sustainable Sewer Pipelines. Journal of Performance of Constructed Facilities, 2008, 22, 333-341.	1.0	126
4	Condition Rating Model for Underground Infrastructure Sustainable Water Mains. Journal of Performance of Constructed Facilities, 2006, 20, 126-135.	1.0	121
5	Infrastructure Management: Integrated AHP/ANN Model to Evaluate Municipal Water Mains's™ Performance. Journal of Infrastructure Systems, 2008, 14, 305-318.	1.0	120
6	Comparative analysis of modular construction practices in mainland China, Hong Kong and Singapore. Journal of Cleaner Production, 2020, 245, 118861.	4.6	110
7	An accelerometer-based leak detection system. Mechanical Systems and Signal Processing, 2018, 108, 276-291.	4.4	102
8	Efficient Utilization of Recycled Concrete Aggregate in Structural Concrete. Journal of Materials in Civil Engineering, 2013, 25, 318-327.	1.3	99
9	Hierarchical Fuzzy Expert System for Risk of Failure of Water Mains. Journal of Pipeline Systems Engineering and Practice, 2010, 1, 53-62.	0.9	98
10	Development of sustainability assessment tool for existing buildings. Sustainable Cities and Society, 2019, 44, 99-119.	5.1	98
11	Machine vision-based model for spalling detection and quantification in subway networks. Automation in Construction, 2017, 81, 149-160.	4.8	96
12	Leak detection in water distribution networks: an introductory overview. Smart Water, 2019, 4, .	3.1	88
13	Prediction Models for Annual Break Rates of Water Mains. Journal of Performance of Constructed Facilities, 2009, 23, 47-54.	1.0	84
14	Simulation of Concrete Batch Plant Production. Journal of Construction Engineering and Management - ASCE, 2001, 127, 132-141.	2.0	83
15	A study of literature in modular integrated construction - Critical review and future directions. Journal of Cleaner Production, 2020, 277, 124044.	4.6	75
16	A model for predicting failure of oil pipelines. Structure and Infrastructure Engineering, 2014, 10, 375-387.	2.0	74
17	Prediction of maximum pitting corrosion depth in oil and gas pipelines. Engineering Failure Analysis, 2020, 112, 104505.	1.8	74
18	A comprehensive review of acoustic based leak localization method in pressurized pipelines. Mechanical Systems and Signal Processing, 2021, 161, 107994.	4.4	70

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19	Automated defect detection tool for closed circuit television (cctv) inspected sewer pipelines. Automation in Construction, 2018, 89, 99-109.	4.8	66
20	Exploring the value management critical success factors for sustainable residential building " A structural equation modelling approach. Journal of Cleaner Production, 2021, 293, 126115.	4.6	66
21	Modelling in off-site construction supply chain management: A review and future directions for sustainable modular integrated construction. Journal of Cleaner Production, 2021, 310, 127503.	4.6	66
22	Infrared thermography model for automated detection of delamination in RC bridge decks. Construction and Building Materials, 2018, 168, 313-327.	3.2	65
23	Pile Construction Productivity Assessment. Journal of Construction Engineering and Management - ASCE, 2005, 131, 705-714.	2.0	63
24	Prototype Model for Build-Operate-Transfer Risk Assessment. Journal of Management in Engineering - ASCE, 2002, 18, 7-16.	2.6	62
25	A Review of Failure Prediction Models for Oil and Gas Pipelines. Journal of Pipeline Systems Engineering and Practice, 2020, 11, .	0.9	62
26	Fuzzy-Based Life-Cycle Cost Model for Decision Making under Subjectivity. Journal of Construction Engineering and Management - ASCE, 2013, 139, 556-563.	2.0	60
27	Contractor Selection Model for Highway Projects Using Integrated Simulation and Analytic Network Process. Journal of Construction Engineering and Management - ASCE, 2013, 139, 755-767.	2.0	58
28	Impact of sewer overflow on public health: A comprehensive scientometric analysis and systematic review. Environmental Research, 2022, 203, 111609.	3.7	58
29	Simulation-based construction productivity forecast using Neural-Network-Driven Fuzzy Reasoning. Automation in Construction, 2016, 65, 102-115.	4.8	56
30	Dynamic planning of construction activities using hybrid simulation. Automation in Construction, 2015, 49, 176-192.	4.8	55
31	Multi-tier method using infrared photography and GPR to detect and locate water leaks. Automation in Construction, 2016, 61, 162-170.	4.8	54
32	Critical factors for successful implementation of just-in-time concept in modular integrated construction: A systematic review and meta-analysis. Journal of Cleaner Production, 2021, 284, 124716.	4.6	53
33	Structural Condition Assessment of Sewer Pipelines. Journal of Performance of Constructed Facilities, 2010, 24, 170-179.	1.0	51
34	Barriers of value management implementation for building projects in Egyptian construction industry. Ain Shams Engineering Journal, 2021, 12, 21-30.	3.5	51
35	Best-Value Model Based on Project Specific Characteristics. Journal of Construction Engineering and Management - ASCE, 2008, 134, 179-188.	2.0	49
36	Corrosiveness mapping of bridge decks using image-based analysis of GPR data. Automation in Construction, 2017, 80, 104-117.	4.8	47

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37	Optimized acceleration of repetitive construction projects. Automation in Construction, 2014, 39, 145-151.	4.8	46
38	Causal analysis of accidents on construction sites: A hybrid fuzzy Delphi and DEMATEL approach. Safety Science, 2022, 151, 105730.	2.6	46
39	Agent-based modeling and simulation of earthmoving operations. Automation in Construction, 2017, 81, 210-223.	4.8	45
40	Quantitative Assessment for Piles Productivity Factors. Journal of Construction Engineering and Management - ASCE, 2004, 130, 405-414.	2.0	44
41	Fuzzy-Based Model for Predicting Failure of Oil Pipelines. Journal of Infrastructure Systems, 2014, 20, .	1.0	43
42	Maintenance Cost Optimization for Bridge Structures Using System Reliability Analysis and Genetic Algorithms. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	43
43	Automated visualization of concrete bridge deck condition from GPR data. NDT and E International, 2019, 102, 120-128.	1.7	42
44	Crane operations and planning in modular integrated construction: Mixed review of literature. Automation in Construction, 2021, 122, 103466.	4.8	42
45	A state of the art review on condition assessment models developed for sewer pipelines. Engineering Applications of Artificial Intelligence, 2020, 93, 103721.	4.3	41
46	Generic Scheduling Optimization Model for Multiple Construction Projects. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	40
47	Integrated Risk-Assessment Framework for Municipal Infrastructure. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	39
48	Productivity and Cost Regression Models for Pile Construction. Journal of Construction Engineering and Management - ASCE, 2005, 131, 779-789.	2.0	38
49	Optimized scheduling and buffering of repetitive construction projects under uncertainty. Engineering, Construction and Architectural Management, 2016, 23, 782-800.	1.8	38
50	Review on Computer Aided Sewer Pipeline Defect Detection and Condition Assessment. Infrastructures, 2019, 4, 10.	1.4	38
51	Micro-electromechanical systems-based technologies for leak detection and localization in water supply networks: A bibliometric and systematic review. Journal of Cleaner Production, 2021, 289, 125751.	4.6	38
52	Method for Analyzing Time-Series GPR Data of Concrete Bridge Decks. Journal of Bridge Engineering, 2015, 20, .	1.4	36
53	Clustering-Based Threshold Model for Condition Assessment of Concrete Bridge Decks with Ground-Penetrating Radar. Transportation Research Record, 2015, 2522, 81-89.	1.0	36
54	Integrated condition rating and forecasting method for bridge decks using Visual Inspection and Ground Penetrating Radar. Automation in Construction, 2018, 89, 135-145.	4.8	36

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55	Performance Evaluating Model for Construction Companies: Egyptian Case Study. Journal of Construction Engineering and Management - ASCE, 2007, 133, 574-581.	2.0	35
56	IoT-based application for construction site safety monitoring. International Journal of Construction Management, 2023, 23, 58-74.	2.2	35
57	Data-driven application of MEMS-based accelerometers for leak detection in water distribution networks. Science of the Total Environment, 2022, 809, 151110.	3.9	35
58	Cash flow modeling for construction projects. Engineering, Construction and Architectural Management, 2014, 21, 170-189.	1.8	34
59	Cell-based representation and analysis of spatial resources in construction simulation. Automation in Construction, 2007, 16, 436-448.	4.8	33
60	Condition Prediction Models for Oil and Gas Pipelines Using Regression Analysis. Journal of Construction Engineering and Management - ASCE, 2014, 140, .	2.0	33
61	Investigating the impact of sewer overflow on the environment: A comprehensive literature review paper. Journal of Environmental Management, 2022, 301, 113810.	3.8	33
62	Life-Cycle Cost Analysis using Deterministic and Stochastic Methods: Conflicting Results. Journal of Performance of Constructed Facilities, 2002, 16, 63-74.	1.0	32
63	MOSCOPEA: Multi-objective construction scheduling optimization using elitist non-dominated sorting genetic algorithm. Automation in Construction, 2016, 71, 153-170.	4.8	31
64	A condition assessment model for oil and gas pipelines using integrated simulation and analytic network process. Structure and Infrastructure Engineering, 2015, 11, 263-281.	2.0	30
65	An integrated assessment approach to prevent risk of sewer exfiltration. Sustainable Cities and Society, 2018, 41, 576-586.	5.1	29
66	Deterioration mapping in subway infrastructure using sensory data of GPR. Tunnelling and Underground Space Technology, 2020, 103, 103487.	3.0	29
67	Deterministic models for assessing productivity and cost of bored piles. Construction Management and Economics, 2005, 23, 531-543.	1.8	26
68	Condition-based maintenance decision support system for oil and gas pipelines. Structure and Infrastructure Engineering, 2015, 11, 1323-1337.	2.0	26
69	Locating Leaks in Water Mains Using Noise Loggers. Journal of Infrastructure Systems, 2016, 22, .	1.0	26
70	Multiobjective Framework for Managing Municipal Integrated Infrastructure. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	26
71	Sustainability-informed multi-criteria decision support framework for ranking and prioritization of pavement sections. Journal of Cleaner Production, 2020, 244, 118755.	4.6	26
72	Acoustic leak detection approaches for water pipelines. Automation in Construction, 2022, 138, 104226.	4.8	26

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73	A New Metric for Assessing Resilience of Water Distribution Networks. <i>Water (Switzerland)</i> , 2019, 11, 1701.	1.2	24
74	Defect-based building condition assessment. <i>Building and Environment</i> , 2021, 191, 107575.	3.0	24
75	Computer Vision-Based Model for Moisture Marks Detection and Recognition in Subway Networks. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	2.5	24
76	Comparative Analysis of Life-Cycle Costing for Rehabilitating Infrastructure Systems. <i>Journal of Performance of Constructed Facilities</i> , 2009, 23, 320-326.	1.0	23
77	Multi-Criteria Decision Making Models for Water Pipelines. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	1.0	23
78	Consequence of Failure: Neurofuzzy-Based Prediction Model for Gas Pipelines. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	1.0	23
79	Performance of NDT Techniques in Appraising Condition of Reinforced Concrete Bridge Decks. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	1.0	22
80	Factors and defects analysis of physical and environmental condition of buildings. <i>Journal of Building Pathology and Rehabilitation</i> , 2020, 5, 1.	0.7	22
81	An exponential chaotic differential evolution algorithm for optimizing bridge maintenance plans. <i>Automation in Construction</i> , 2022, 134, 104107.	4.8	22
82	Space-Based Condition Assessment Model for Buildings: Case Study of Educational Buildings. <i>Journal of Performance of Constructed Facilities</i> , 2015, 29, .	1.0	21
83	Defect based deterioration model for sewer pipelines using Bayesian belief networks. <i>Canadian Journal of Civil Engineering</i> , 2017, 44, 675-690.	0.7	21
84	Multiattribute Utility Theory Deployment in Sewer Defects Assessment. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	2.5	21
85	Intelligent Approaches for Predicting Failure of Water Mains. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, .	0.9	21
86	Towards a comprehensive review of the deterioration factors and modeling for sewer pipelines: A hybrid of bibliometric, scientometric, and meta-analysis approach. <i>Journal of Cleaner Production</i> , 2022, 351, 131460.	4.6	21
87	Slip-Form Application to Concrete Structures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2008, 134, 157-168.	2.0	20
88	Finance-based scheduling multi-objective optimization: Benchmarking of evolutionary algorithms. <i>Automation in Construction</i> , 2020, 120, 103392.	4.8	20
89	Synchronized scheduling model for container terminals using simulated double-cycling strategy. <i>Computers and Industrial Engineering</i> , 2021, 154, 107118.	3.4	20
90	Value management implementation barriers for sustainable building: a bibliometric analysis and partial least square structural equation modeling. <i>Construction Innovation</i> , 2023, 23, 38-73.	1.5	20

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91	Condition Prediction for Cured-in-Place Pipe Rehabilitation of Sewer Mains. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	19
92	Sustainable Logistics Planning in Modular Integrated Construction Using Multimethod Simulation and Taguchi Approach. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	19
93	Resource Allocation for Concrete Batch Plant Operation: Case Study. Journal of Construction Engineering and Management - ASCE, 2004, 130, 560-569.	2.0	18
94	Assessment Model of Water Main Conditions. , 2006, , 1.		18
95	Decision support model for selection of rehabilitation methods of water mains. Structure and Infrastructure Engineering, 2012, 8, 847-855.	2.0	18
96	Simulation-based life cycle cost modeling and maintenance plan for water mains. Structure and Infrastructure Engineering, 2013, 9, 403-415.	2.0	18
97	Unpiggable Oil and Gas Pipeline Condition Forecasting Models. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	18
98	Simulation-Based Condition Assessment Model for Sewer Pipelines. Journal of Performance of Constructed Facilities, 2017, 31, 04016066.	1.0	18
99	Method for developing and updating deterioration models for concrete bridge decks using GPR data. Automation in Construction, 2018, 91, 133-141.	4.8	18
100	An optimization-based methodology for the definition of amplitude thresholds of the ground penetrating radar. Soft Computing, 2019, 23, 12063-12086.	2.1	18
101	Availability-based reliability-centered maintenance planning for gas transmission pipelines. International Journal of Pressure Vessels and Piping, 2020, 183, 104105.	1.2	18
102	A system boundary-based critical review on crane selection in building construction. Automation in Construction, 2021, 123, 103520.	4.8	18
103	Failure modeling of water distribution pipelines using meta-learning algorithms. Water Research, 2021, 205, 117680.	5.3	18
104	Simulation as a Tool for Pile Productivity Assessment. Journal of Construction Engineering and Management - ASCE, 2004, 130, 394-404.	2.0	17
105	Modeling the Effect of Subjective Factors on Productivity of Trenchless Technology Application to Buried Infrastructure Systems. Journal of Construction Engineering and Management - ASCE, 2007, 133, 743-748.	2.0	17
106	System-Level Deterioration Model for Reinforced Concrete Bridge Decks. Journal of Bridge Engineering, 2015, 20, 04014081.	1.4	17
107	Automated Anomaly Detection and Localization in Sewer Inspection Videos Using Proportional Data Modeling and Deep Learning-Based Text Recognition. Journal of Infrastructure Systems, 2020, 26, .	1.0	17
108	Review of Water Leak Detection and Localization Methods through Hydrophone Technology. Journal of Pipeline Systems Engineering and Practice, 2021, 12, 03121002.	0.9	17

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109	Life-Cycle Cost Based Maintenance Plan for Steel Bridge Protection Systems. Journal of Performance of Constructed Facilities, 2002, 16, 55-62.	1.0	16
110	Best Practices of Bridge System Management – A Synthesis. Journal of Management in Engineering - ASCE, 2006, 22, 186-195.	2.6	16
111	Model for the Physical Risk Assessment of Bridges with Unknown Foundation. Journal of Performance of Constructed Facilities, 2007, 21, 44-52.	1.0	16
112	Data acquisition and factors impacting productivity of Horizontal Directional Drilling (HDD). Tunnelling and Underground Space Technology, 2013, 33, 63-72.	3.0	16
113	Multi-Objective Optimization Model for Inspection Scheduling of Sewer Pipelines. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	16
114	Comprehensive Inspection System for Concrete Bridge Deck Application: Current Situation and Future Needs. Journal of Performance of Constructed Facilities, 2020, 34, .	1.0	16
115	A Sustainability Based Framework for Evaluating the Heritage Buildings. International Journal of Energy Optimization and Engineering, 2020, 9, 49-73.	0.4	16
116	A comparative review of building component rating systems. Journal of Building Engineering, 2021, 33, 101588.	1.6	16
117	Hybrid Elman Neural Network and an Invasive Weed Optimization Method for Bridge Defect Recognition. Transportation Research Record, 2021, 2675, 167-199.	1.0	16
118	A critical analysis of benefits and challenges of implementing modular integrated construction. International Journal of Construction Management, 2023, 23, 656-668.	2.2	16
119	Investigating the Barriers to Applying the Internet-of-Things-Based Technologies to Construction Site Safety Management. International Journal of Environmental Research and Public Health, 2022, 19, 868.	1.2	16
120	Statewide Performance Function for Steel Bridge Protection Systems. Journal of Performance of Constructed Facilities, 2002, 16, 46-54.	1.0	15
121	Budget allocation and rehabilitation plans for water systems using simulation approach. Tunnelling and Underground Space Technology, 2013, 36, 34-45.	3.0	15
122	Condition Prediction for Chemical Grouting Rehabilitation of Sewer Networks. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	15
123	Sewer Pipeline Operational Condition Prediction Using Multiple Regression. , 2007, , .		14
124	Risk Assessment for Water Mains Using Fuzzy Approach. , 2009, , .		14
125	Integrated Decision-Support Framework for Municipal Infrastructure Asset. , 2010, , .		14
126	The impact on environment of underground infrastructure utility work. Structure and Infrastructure Engineering, 2011, 7, 199-210.	2.0	14



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127	Defect-Based Condition Assessment of Concrete Bridges. Transportation Research Record, 2014, 2431, 88-96.	1.0	14
128	Subway Infrastructure Condition Assessment. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	2.0	14
129	Rational Condition Assessment of RC Bridge Decks Subjected to Corrosion-Induced Delamination. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	14
130	Integrated Performance Assessment Model for Water Networks. Journal of Infrastructure Systems, 2018, 24, .	1.0	14
131	Development of a sustainability rating tool for heritage buildings: future implications. Smart and Sustainable Built Environment, 2020, ahead-of-print, .	2.2	14
132	Examining the OHS of green building construction projects: A hybrid fuzzy-based approach. Journal of Cleaner Production, 2022, 338, 130590.	4.6	14
133	Occupational Health and Safety in Modular Integrated Construction projects: The case of crane operations. Journal of Cleaner Production, 2022, 342, 130950.	4.6	14
134	Resource Management of Bridge Deck Rehabilitation: Jacques Cartier Bridge Case Study. Journal of Construction Engineering and Management - ASCE, 2008, 134, 311-319.	2.0	13
135	Study of the Suitability of Existing Deterioration Models for Water Mains. Journal of Performance of Constructed Facilities, 2009, 23, 40-46.	1.0	13
136	Condition Assessment of Water Treatment Plant Components. Journal of Performance of Constructed Facilities, 2009, 23, 276-287.	1.0	13
137	Modelling the effect of various factors on the condition of pavement marking. Structure and Infrastructure Engineering, 2014, 10, 93-105.	2.0	13
138	Collective thinking approach for improving leak detection systems. Smart Water, 2016, 2, .	3.1	13
139	Integrated Condition Rating Model for Reinforced Concrete Bridge Decks. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	13
140	Construction productivity fuzzy knowledge base management system. Canadian Journal of Civil Engineering, 2018, 45, 329-338.	0.7	13
141	Modeling Failure of Oil Pipelines. Journal of Performance of Constructed Facilities, 2020, 34, 04019088.	1.0	13
142	Application of fiber optics in water distribution networks for leak detection and localization: a mixed methodology-based review. H2Open Journal, 2021, 4, 244-261.	0.8	13
143	Sustainability assessment model for heritage buildings. Smart and Sustainable Built Environment, 2023, 12, 105-127.	2.2	13
144	Reliability assessment of subsea pipelines under the effect of spanning load and corrosion degradation. Journal of Natural Gas Science and Engineering, 2022, 102, 104569.	2.1	13

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145	GPR-Based Fuzzy Model for Bridge Deck Corrosiveness Index. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	12
146	Determining Relative Weights of Sewer Pipelinesâ€™ Components and Defects. Journal of Pipeline Systems Engineering and Practice, 2018, 9, .	0.9	12
147	Trends and developments of on-site crane layout planning 1983â€“2020: bibliometric, scientometric and qualitative analyses. Construction Innovation, 2022, 22, 1011-1035.	1.5	12
148	A Multi-objective Invasive Weed Optimization Method for Segmentation of Distress Images. Intelligent Automation and Soft Computing, 2020, 26, 643-661.	1.6	12
149	Budget Allocation for Steel Bridge Paint Maintenance. Journal of Performance of Constructed Facilities, 2004, 18, 36-46.	1.0	11
150	Productivity and Cost Assessment for Continuous Flight Auger Piles. Journal of Construction Engineering and Management - ASCE, 2005, 131, 677-688.	2.0	11
151	Simulation as a tool for life cycle cost analysis. , 2008, , .		11
152	A stochastic diagnostic model for subway stations. Tunnelling and Underground Space Technology, 2010, 25, 32-41.	3.0	11
153	Integrating WRc and CERIU Condition Assessment Models and Classification Protocols for Sewer Pipelines. Journal of Infrastructure Systems, 2011, 17, 129-136.	1.0	11
154	New lifeâ€™cycle costing approach for infrastructure rehabilitation. Engineering, Construction and Architectural Management, 2012, 19, 40-60.	1.8	11
155	Construction knowledge discovery system using fuzzy approach. Canadian Journal of Civil Engineering, 2015, 42, 22-32.	0.7	11
156	Evidential Reasoningâ€“Based Condition Assessment Model for Offshore Gas Pipelines. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	11
157	Real-Time Defect Detection in Sewer Closed Circuit Television Inspection Videos. , 2017, , .		11
158	Condition assessment model for sewer pipelines using fuzzy-based evidential reasoning. Australian Journal of Civil Engineering, 2018, 16, 23-37.	0.6	11
159	A Hybrid Genetic Algorithm-Based Fuzzy Markovian Model for the Deterioration Modeling of Healthcare Facilities. Algorithms, 2020, 13, 210.	1.2	11
160	An Approach to Predict the Failure of Water Mains Under Climatic Variations. International Journal of Geosynthetics and Ground Engineering, 2020, 6, 1.	0.9	11
161	Entropy-Based Automated Method for Detection and Assessment of Spalling Severities in Reinforced Concrete Bridges. Journal of Performance of Constructed Facilities, 2021, 35, .	1.0	11
162	Condition assessment model of building indoor environment: a case study on educational buildings. International Journal of Building Pathology and Adaptation, 2023, 41, 767-788.	0.7	11

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163	Gene expression programming based mathematical modeling for leak detection of water distribution networks. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110611.	2.5	11
164	A comprehensive analysis of the causal factors in repair, maintenance, alteration, and addition works: A novel hybrid fuzzy-based approach. Expert Systems With Applications, 2022, 208, 118112.	4.4	11
165	Process versus Data Oriented Techniques in Pile Construction Productivity Assessment. Journal of Construction Engineering and Management - ASCE, 2004, 130, 490-499.	2.0	10
166	Productivity and delays assessment for concrete batch plant truck mixer operations. Construction Management and Economics, 2005, 23, 839-850.	1.8	10
167	Cost management for concrete batch plant using stochastic mathematical models. Canadian Journal of Civil Engineering, 2006, 33, 1065-1074.	0.7	10
168	Structural Condition Models for Sewer Pipeline. , 2007, , 1.		10
169	Investigation and Modeling of Critical Success Factors in Construction Organizations. , 2009, , .		10
170	Neurofuzzy-Based Productivity Prediction Model for Horizontal Directional Drilling. Journal of Pipeline Systems Engineering and Practice, 2014, 5, .	0.9	10
171	Fitness-oriented multi-objective optimisation for infrastructures rehabilitations. Structure and Infrastructure Engineering, 2015, 11, 761-775.	2.0	10
172	A computerized hybrid Bayesian-based approach for modelling the deterioration of concrete bridge decks. Structure and Infrastructure Engineering, 2019, 15, 1178-1199.	2.0	10
173	Development of a clustering-based model for enhancing acoustic leak detection. Canadian Journal of Civil Engineering, 2019, 46, 278-286.	0.7	10
174	A self-adaptive exhaustive search optimization-based method for restoration of bridge defects images. International Journal of Machine Learning and Cybernetics, 2020, 11, 1659-1716.	2.3	10
175	Subway Station Diagnosis Index Condition Assessment Model. Journal of Infrastructure Systems, 2009, 15, 222-231.	1.0	9
176	Modeling Fund Allocation to Water Main Rehabilitation Projects. Journal of Performance of Constructed Facilities, 2013, 27, 646-655.	1.0	9
177	Identifying Rehabilitation Options for Optimum Improvement in Municipal Asset Condition. Journal of Infrastructure Systems, 2015, 21, 04014037.	1.0	9
178	Integrated performance assessment model for water distribution networks. Structure and Infrastructure Engineering, 2016, , 1-20.	2.0	9
179	Pavement Condition Rating Using Multiattribute Utility Theory. Journal of Transportation Engineering Part B: Pavements, 2017, 143, 04017011.	0.8	9
180	Defect-Based ArcGIS Tool for Prioritizing Inspection of Sewer Pipelines. Journal of Pipeline Systems Engineering and Practice, 2018, 9, .	0.9	9

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181	Simulation-based deterioration patterns of water pipelines. Structure and Infrastructure Engineering, 2019, 15, 965-982.	2.0	9
182	Prediction of Breaks in Municipal Drinking Water Linear Assets. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	9
183	Defect-Based Condition Assessment Model for Sewer Pipelines Using Fuzzy Hierarchical Evidential Reasoning. Journal of Performance of Constructed Facilities, 2021, 35, .	1.0	9
184	A review of sustainable facility management research. Sustainable Cities and Society, 2020, 55, 102073.	5.1	9
185	A Prediction Model for Construction Project Time Contingency. , 2009, , .		8
186	Data acquisition and analysis for water main rehabilitation techniques. Structure and Infrastructure Engineering, 0, , 1-13.	2.0	8
187	Ground penetrating radar-based deterioration assessment of RC bridge decks. Construction Innovation, 2020, 20, 1-17.	1.5	8
188	Integrated Condition-Based Rating Model for Sustainable Bridge Management. Journal of Performance of Constructed Facilities, 2020, 34, .	1.0	8
189	Leak detection in real water distribution networks based on acoustic emission and machine learning. Environmental Technology (United Kingdom), 2023, 44, 3850-3866.	1.2	8
190	Data Management for Construction Processes Using Fuzzy Approach. , 2012, , .		7
191	Fuzzy-versus Simulation-Based Life-Cycle Cost for Sewer Rehabilitation Alternatives. Journal of Performance of Constructed Facilities, 2013, 27, 656-665.	1.0	7
192	Fuzzy dynamic programming for optimized scheduling of repetitive construction projects. , 2013, , .		7
193	Destructive Analysis-Based Testing for Cured-in-Place Pipe. Journal of Performance of Constructed Facilities, 2015, 29, .	1.0	7
194	Infrastructure performance rating models for wastewater treatment plants. Structure and Infrastructure Engineering, 2015, 11, 668-682.	2.0	7
195	Reliability-Based Condition Assessment of an Externally Restrained Bridge Deck System Considering Uncertainties in Key Design Parameters. Journal of Performance of Constructed Facilities, 2016, 30, 04014189.	1.0	7
196	Common practices in assessing conditions of concrete bridges. MATEC Web of Conferences, 2017, 120, 02016.	0.1	7
197	Simulation-based planning of concrete bridge deck inspection with non-destructive technologies. Automation in Construction, 2020, 119, 103337.	4.8	7
198	Resilience-Driven Multiobjective Restoration Planning for Water Distribution Networks. Journal of Performance of Constructed Facilities, 2020, 34, .	1.0	7

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199	A failure prediction model for corrosion in gas transmission pipelines. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 374-390.	0.6	7
200	A Hybrid Multi-Criteria Decision Making Model for Defect-Based Condition Assessment of Railway Infrastructure. Sustainability, 2021, 13, 7186.	1.6	7
201	Performance assessment model of non-destructive technologies in inspecting concrete bridge decks. Structure and Infrastructure Engineering, 2023, 19, 216-237.	2.0	7
202	A novel Neutrosophic-based machine learning approach for maintenance prioritization in healthcare facilities. Journal of Building Engineering, 2021, 42, 102480.	1.6	7
203	Rehabilitation of municipal infrastructure using risk-based performance. Automation in Construction, 2022, 140, 104335.	4.8	7
204	Stochastic Productivity Assessment of Continuous Flight Auger Piles. Architectural Science Review, 2009, 52, 17-27.	1.1	6
205	A Hybrid Framework for Modeling Construction Operations Using Discrete Event Simulation and System Dynamics. , 2012, , .		6
206	Cost benefit analysis for failure of sewer pipelines. MATEC Web of Conferences, 2017, 120, 08006.	0.1	6
207	An economic loss model for failure of sewer pipelines. Structure and Infrastructure Engineering, 2018, 14, 1312-1323.	2.0	6
208	Level of Service-Based Asset Management Framework for Water Supply Systems. Journal of Pipeline Systems Engineering and Practice, 2020, 11, .	0.9	6
209	Reliability Assessment Model for Water Distribution Networks. Journal of Pipeline Systems Engineering and Practice, 2020, 11, 04019059.	0.9	6
210	Resilience-Driven Sustainability-Based Rehabilitation Planning for Water Distribution Networks. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	6
211	A Sustainability-Based Risk Assessment for P3 Projects Using a Simulation Approach. Sustainability, 2022, 14, 344.	1.6	6
212	Representation and Analysis of Spatial Resources in Construction Simulation. , 0, , .		5
213	Rational Best-Value Model Based on Expected Performance. Transportation Research Record, 2008, 2081, 46-55.	1.0	5
214	An Integrated Condition Assessment Model for Buildings. , 2010, , .		5
215	Modelling the performance of pavement marking in cold weather conditions. Structure and Infrastructure Engineering, 0, , 1-13.	2.0	5
216	Finance-Based Scheduling for Multiple Projects with Multimode Activities. , 2012, , .		5

#	ARTICLE	IF	CITATIONS
217	UTILIZING RANDOM PERFORMANCE RECORDS IN THE BEST VALUE MODEL / ATSITIKTINE TVARKA PARINKTĀ <sup>2</sup> VEIKLOS EFEKTYVUMO DUOMENĀ <sup>2</sup> NAUDOJIMAS GERIAUSIOS VERTĀ–S MODELyje. Journal of Civil Engineering and Management, 2012, 18, 197-208.	1.9	5
218	A case productivity model for automatic climbing system. Engineering, Construction and Architectural Management, 2014, 21, 33-50.	1.8	5
219	Risk-Based Asset Management Framework for Subway Systems. Journal of Construction Engineering and Management - ASCE, 2019, 145, 04019071.	2.0	5
220	Modelling the Deterioration of Bridge Decks Based on Semi-Markov Decision Process. International Journal of Strategic Decision Sciences, 2019, 10, 23-45.	0.0	5
221	Erosion Void Condition Prediction Models for Buried Linear Assets. Journal of Pipeline Systems Engineering and Practice, 2019, 10, .	0.9	5
222	Integrative Evolutionary-Based Method for Modeling and Optimizing Budget Assignment of Bridge Maintenance Priorities. Journal of Construction Engineering and Management - ASCE, 2021, 147, 04021100.	2.0	5
223	Two-Stage Predictive Maintenance Planning for Hospital Buildings: A Multiple-Objective Optimization-Based Clustering Approach. Journal of Performance of Constructed Facilities, 2022, 36, .	1.0	5
224	Simulation of bored pile construction. , 0, , .		4
225	Rehabilitation Scenarios for Sustainable Water Mains. , 2006, , 1.		4
226	Scheduling Model for Rehabilitation of Distribution Networks Using MINLP. Journal of Construction Engineering and Management - ASCE, 2013, 139, 498-509.	2.0	4
227	An Accelerometer-Based Real-Time Monitoring and Leak Detection System for Pressurized Water Pipelines. , 2016, , .		4
228	Defect- and component-based assessment model for manholes. Tunnelling and Underground Space Technology, 2018, 82, 380-393.	3.0	4
229	Automated Sewer Pipeline Inspection Using Computer Vision Techniques. , 2018, , .		4
230	An Integrated Sustainability Assessment Tool Framework. , 0, , .		4
231	Neutrosophic-AHP-based GA Model for Renewals Planning of Hospital Building Assets. , 2020, , .		4
232	Deterioration Mapping of RC Bridge Elements Based on Automated Analysis of GPR Images. Remote Sensing, 2022, 14, 1131.	1.8	4
233	Criteria-based critical review of artificial intelligence applications in water-leak management. Environmental Reviews, 2022, 30, 280-297.	2.1	4
234	Selection Method for Rehabilitation of Water Distribution Networks. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
235	Methodology for synchronizing Discrete Event Simulation and System Dynamics models. , 2012, , .		3
236	Leak Detection in Buried Pipes Using Ground Penetrating Radarâ€”A Comparative Study. , 2016, , .		3
237	Viola-Jones Algorithm for Automatic Detection of Hyperbolic Regions in GPR Profiles of Bridge Decks. , 2018, , .		3
238	Criticality Model to Prioritize Pipeline Rehabilitation Decisions. , 2018, , .		3
239	An Invasive Weed Optimization-Based Fuzzy Decision-making Framework for Bridge Intervention Prioritization in Element and Network Levels. International Journal of Information Technology and Decision Making, 2020, 19, 1189-1246.	2.3	3
240	Budget Optimization of Concrete Bridge Decks under Performance-Based Contract Settings. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	3
241	Technology-based multi-tiered building diagnosis framework. International Journal of Building Pathology and Adaptation, 2022, 40, 101-133.	0.7	3
242	Multiobjective Optimization Model for the Life Cycle Cost-Sustainability Trade-Off Problem of Building Upgrading Using a Generic Sustainability Assessment Tool. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	3
243	Life-Cycle Cost Based Rehabilitation Plan for Water Mains. , 2008, , .		2
244	Stochastic Analysis of Factors Affecting Sewer Network Operational Condition. , 2009, , .		2
245	Productivity Analysis of Horizontal Directional Drilling. , 2009, , .		2
246	Assessment of construction operations productivity rate as computed by simulation models. , 2013, , .		2
247	Fuzzy defect based condition assessment of concrete bridges. , 2013, , .		2
248	Discussion of "Method to Implement Delayed Product Differentiation in Construction of High-Rise Apartment Building Projects" by Ceclia Gravina da Rocha and Sergio Luiz Kemmer. Journal of Construction Engineering and Management - ASCE, 2015, 141, 07014003.	2.0	2
249	Sewer Inspection Prioritization Using a Defect-Based Bayesian Belief Network Model. , 2016, , .		2
250	3D Thermal and Spatial Modeling of a Subway Tunnel: A Case Study. , 2017, , .		2
251	GPR-Based Deterioration Mapping in Subway Networks. , 2018, , .		2
252	Mapping Ground Penetrating Radar Amplitudes Using Artificial Neural Network and Multiple Regression Analysis Methods. International Journal of Strategic Decision Sciences, 2019, 10, 84-106.	0.0	2

#	ARTICLE	IF	CITATIONS
253	Optimized maintenance model for wastewater treatment plants. Canadian Journal of Civil Engineering, 2020, 47, 929-938.	0.7	2
254	Relationship between Social Media and ASCE Code of Ethics: Review and Case-Based Discussion. Journal of Civil Engineering Education, 2020, 146, 05019002.	0.8	2
255	Fuzzy Preference Programming Framework for Functional assessment of Subway Networks. Algorithms, 2020, 13, 220.	1.2	2
256	Resilience-based optimization model for maintenance and rehabilitation of pavement networks in a freeze-thaw environment. Canadian Journal of Civil Engineering, 2021, 48, 399-410.	0.7	2
257	A Grey Wolf Optimization-Based Method for Segmentation and Evaluation of Scaling in Reinforced Concrete Bridges. International Journal of Information Technology and Decision Making, 0, , 1-54.	2.3	2
258	Intelligent Optimized Decision-Support System for Sewer Network Assets Improvement. Journal of Infrastructure Systems, 2021, 27, .	1.0	2
259	Community-Driven and Reliability-Based Budget Allocation for Water Networks. , 2010, , .		2
260	A machine learning-based model for real-time leak pinpointing in buildings using accelerometers. JVC/Journal of Vibration and Control, 2023, 29, 1539-1553.	1.5	2
261	Data fusion of multiple machine intelligent systems for the condition assessment of subway structures. Tunnelling and Underground Space Technology, 2022, 126, 104512.	3.0	2
262	Clustered Models for the Integration of Sewer Condition Classification Protocols. , 2008, , .		1
263	Probabilistic Bow-Tie Model to Predict Failure Probability of Oil and Gas Pipelines. , 2014, , .		1
264	Performance Assessment Model for Water Networks. , 2016, , .		1
265	Integrated sensing technologies for detection and location of leaks in water distribution networks. Water Science and Technology: Water Supply, 2017, 17, 1589-1601.	1.0	1
266	Performance-based contracting for maintaining transportation assets with emphasis on bridges. MATEC Web of Conferences, 2017, 120, 08012.	0.1	1
267	Defect Based Risk Assessment Model for Prioritizing Inspection of Sewer Pipelines. , 2018, , .		1
268	Multi-level fleet size optimization for containers handling using double-cycling strategy. Expert Systems With Applications, 2021, 170, 114526.	4.4	1
269	Development of a Contractor Failure Prediction Model Using Analytic Network Process. Journal of Architectural Engineering, 2021, 27, 04021006.	0.8	1
270	Reliability-based condition assessment of a deteriorated concrete bridge. Structural Monitoring and Maintenance, 2014, 1, 357-369.	1.7	1



#	ARTICLE	IF	CITATIONS
271	Optimized Acceleration of Repetitive Construction Projects. , 2012, , .		1
272	Dynamic planning of earthmoving projects using system dynamics. Gerontechnology, 2012, 11, .	0.0	1
273	Closure to "Statewide Performance Function for Steel Bridge Protection Systems" by Tarek M. Zayed, Luh-Maan Chang, and Jon D. Fricker. Journal of Performance of Constructed Facilities, 2004, 18, 63-64.	1.0	0
274	Conspace Simulation Application. , 2006, , .		0
275	Performance of Water Treatment Plant Elements. , 2008, , .		0
276	Quantification and Measurement of Level of Service of Water Distribution Networks. , 2009, , .		0
277	Assessment of the Effect of Changing Activities' Start Times on Cash-flow Parameters. , 2014, , .		0
278	Aspiration to enrol children in Islamic studies: a case of academicians. Journal for Multicultural Education, 2016, 10, 435-448.	0.4	0
279	Quantifying the Impact of Change on the Progress of Construction Projects. , 2018, , .		0
280	A Component-Based Approach in Assessing Sewer Manholes. , 2020, , .		0
281	A Novel Lazy Serpent Algorithm for the Prioritization of Leak Repairs in Water Networks. Water (Switzerland), 2020, 12, 2235.	1.2	0
282	Client-driven performance-evaluation framework for municipal infrastructure. Structure and Infrastructure Engineering, 0, , 1-18.	2.0	0
283	A study of accelerometer signal decay in small pipelines. Signal, Image and Video Processing, 2022, 16, 835-840.	1.7	0
284	An integrated space-based building maintenance management model using multi-objective optimization. Smart and Sustainable Built Environment, 2021, ahead-of-print, .	2.2	0
285	Fuzzy Clustering-Based Model for Productivity Forecasting. , 2013, , .		0
286	Improving Productivity of Yard Trucks in Port Container Terminal Using Computer Simulation. , 2014, , .		0
287	A Probabilistic-Based Deterioration Model Using Ground Penetrating Radar. , 2018, , .		0
288	Optimized maintenance plan for oil and gas pipelines. Canadian Journal of Civil Engineering, 0, , 1-12.	0.7	0